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PALOMAR AMATEUR RADIO CLUB

May 2022 SCOPE Newsletter

May 2022 General Meeting

PRACTICAL OPEN SOURCE ENGINEERING: FORWARD ERROR CORRECTION

Please join us at 19:00 on Wednesday, May 4th for pre-meeting social time
19:30 for the start of the meeting, club announcements, followed by our program

The meeting will be at the Harding Center 3096 Harding St, Carlsbad.

You can also join online at:

The Zoom link is:

<https://zoom.us/j/98736897490>

Meeting ID: 987 3689 7490

Passcode: 001960

This talk is an accessible explanation of the forward error correction in the M17 Protocol followed by a demonstration of the protocol's VHF/UHF amateur radio digital voice functionality.

M17 is a community of open source developers and radio enthusiasts.

M17 is developing a new digital radio protocol for data and voice, made by and for amateur radio operators. The voice mode uses the free and open Codec 2 voice encoder.

This means there are no patents, no royalties, and no licensing or legal barriers to scratch-building your own radio or modifying one you already own.

This freedom to build, understand, and innovate is core to amateur radio, but has been missing from the commercially available digital voice modes.

M17 can be adapted to space. Open Research Institute actively supports both terrestrial and space development. Updates about testing M17 in space will be shared.

The M17 Protocol can be used over RF with the following hardware or software implementations:

Module 17 is a smart-mic hardware M17 implementation running OpenRTX firmware (In Development)

TYT MD3x0 and clones with the OpenRTX firmware and a small hardware mod can be used with the M17 Protocol. (Experimental)

MMDVM hardware running the latest MMDVM firmware.

MMDVM_HS hotspots running the latest MMDVM_HS firmware. This includes serial based Raspberry Pi hats, and USB based dongles that run MMDVM_HS firmware.



President's Report

Fellow HAMs,

We've had some great meetings recently and we hope to continue, but we need suggestions!

Do you have a technical topic that you would feel comfortable sharing with the club? Even if it isn't a full presentation, we can do a meeting with two or three of your presentations!

Have you seen a presentation somewhere else that you think the PARC group would enjoy? Is there a topic you want to hear more about and would like us to find a way to present on it? Great!

Please email board@palomararc.org with your ideas. We will continue our hybrid meetings, in-person at the Harding Community Center, as well as via Zoom. See above for the Zoom link.

We are also working to encourage more activity on the C4FM mode of our repeaters. The 146.130 machine will be our Wires-X machine in the near future, and where some of us will be monitoring from time to time.

Looking forward to seeing you at the meeting and hearing you on the air!

73 de K6JPE

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Joseph Peterson

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K6JPE

INTERNATIONAL STYLE ON-FOOT T-HUNT

Saturday May 21st. 2022

Felicita County Park, Escondido, CA 92029

Sponsored by the San Diego T-Hunt Group &

CQ Magazine World Wide Fox Hunting Weekend

Starting times will be 10:30 AM to 1:30 PM at 5 minute intervals. If you start at 1:30 you will have until 3:00 to complete the course. **NO REGISTRATION FEES!** There will be 5 hidden T's using the MOE-MOI-MOS-MOH-MO5 format. You will be issued a "Punch card" and there will be orange & white flagging tape at each punch located close to the T's which will be concealed. Antennas will all be vertically polarized with approximately the same radiated power from each "T". For information on "International Style Transmitter Hunting" you may go to Joe Moell, K0OV's excellent website.... www.homingin.com. We will have limited equipment to loan for those that do not have small 2-M beams. Bring a connector to go from your HT antenna connector to a BNC cable (Chinese HT's not recommended). There will be experienced Hams present to demonstrate techniques for those that want to learn about "On-Foot" Amateur Radio Direction Finding (ADRF) and some "Practice T's" to experiment with before you start the course. You do not need a Ham Radio License to participate! You will be issued a map of the area with major features delineated. A compass, clipboard and pencil may be handy to plot bearings with. Dress appropriately and plan on taking water with you while hunting.

A BBQ is planned for about 2:30 PM for those interested. We will have burgers & hot dogs, buns, condiments, potato salad, drinks, chips & salsa. BBQ donations can be made on site. If you are staying for BBQ you might want to bring a folding chair. For information contact:

Joe Corones, N6SZO @ H-858.484.3582, C-858.603.5545, jcorones@gmail.com OR... ..

Joe Loughlin, KE6PHB @ H-619.461.7854, C-619.403.3149, ke6phb@cox.net

Directions: From Interstate 15 in Escondido take Via Rancho PKWY West about 0.75 miles to Felicita Rd., turn right onto Felicita Rd. and Park entrance will be 0.5 miles on your left. Park opens at 9:30 and there is a \$3.00 day use parking charge. Take first left and we will be located close to the N. end of the parking lot. Look for T-Hunt signs/banners. Coordinates are, 33 04' 55.65" N, 117 05' 12.73" W.

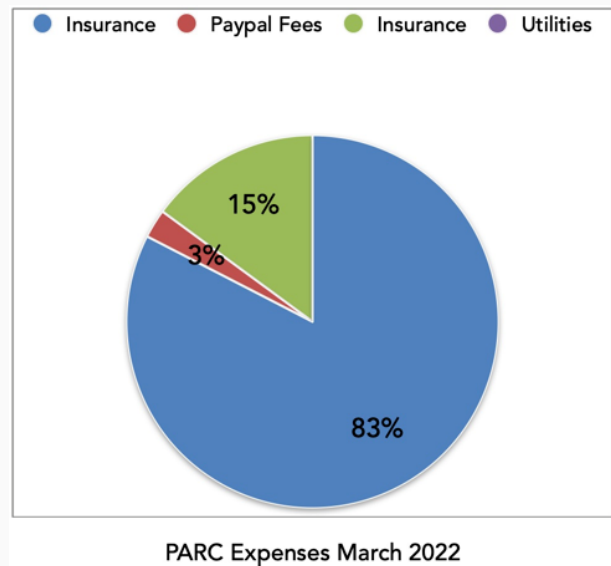
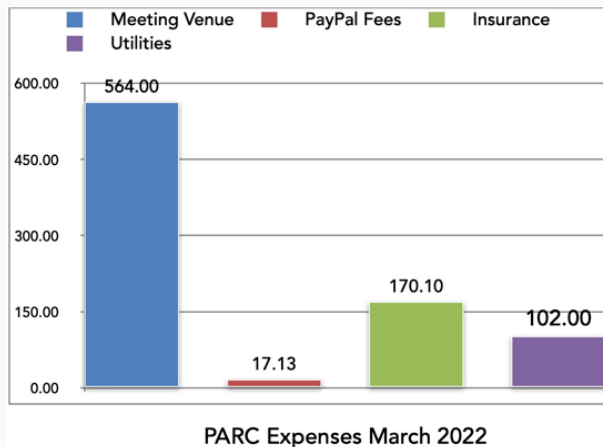
COME OUT AND EXPERIENCE A DIFFERENT ASPECT OF HAM RADIO



Membership Report

Please keep an eye on your email for direct updates from your Membership Chair, Glen Al6RR, for updates about your individual membership status and renewal dates. You can always [reach out to him directly](#) or [Check Your Membership](#) on the website.

Financial Report



Just as I was arriving home from my walk at Lake Miramar I spot this hot air balloon drifting only like 125 above houses in my neighborhood in Mira Mesa and my neighbor catches it on video.

My fake owl at top of my tower stands at 94ft and he just missed it by not too many ft !

He then drifted past 100 ft tall Eucalyptus trees about 100 ft away from my tower and dropped into the Rock Quarry behind the trees in the canyon.

I could not see if he landed OK but saw no fire and hoping neighbor sends video to news stations for more info.

Dennis N6KI

Betty KB6DGR, SK

Mary KB6NZA has been contact with Betty KB6DGR every since betty moved away form Chula Vista to Minnesota.

The past couple of years she was in poor health.

Betty's daughter called us today (4-19-2022) to inform us of her passing.

When Betty was here she was a PARC member, and was active in Packet Radio.

I just wanted to inform PARC of her going Silent Key.

Thank you

Carl N6NZX and Mary KB6NZA





In Flanders fields the poppies blow
Between the crosses, row on row,
That mark our place; and in the sky
The larks, still bravely singing, fly
Scarce heard amid the guns below.

We are the Dead. Short days ago
We lived, felt dawn, saw sunset glow,
Loved and were loved, and now we lie,

In Flanders fields.

Take up our quarrel with the foe:
To you from failing hands we throw
The torch; be yours to hold it high.
If ye break faith with us who die

We shall not sleep, though poppies grow

In Flanders fields.

Your Board of Directors

Call Sign.	Name.	Position
K6JPE	Joe	President
W5NYV	Michelle	Vice-President
W6TQS	Jim	Secretary
K2VO	Jim	Treasurer
AI6RR	Glen	<i>Membership Chair</i>
AJ6FQ	Ron	Director #1
KD9LF	Chris	Director #2
KM6CXW	Keith	<i>Scope Editor</i>
KF6WTN	Mark	<i>Repeater Chair</i>
NN3V	Charlie	Site Chair

Member Satisfaction Survey

Scope Articles/Content

Please submit articles or content to scope@palomararc.org if you have done something interesting please share with us!
We'd love to see your HAM shacks, mobile rigs, hiking rigs, stories about your hikes or expeditions, anything you think other club members may be interested in reading about.

Donate



SHOP NOW



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